CHAPTER 3

Chassis Installation Procedures for the Cisco 1805 DOCSIS Cable Router

This chapter describes how to physically set up Cisco 1805 DOCSIS cable routers. It contains the following sections:

Note Before you install, operate, or service the system, read the *Regulatory Compliance and Safety Information for Cisco 1840 Routers* for important safety information and translations of the warnings that appear in this guide.

Internal Components

The router's internal components include the following:

- SDRAM
- Advanced integration module (AIM)

Plug-In Components

The following components plug into the router chassis:

- Cisco cable modem high-speed WAN interface card (HWIC)
- Cisco 10/100BASE-T Ethernet switch HWIC
- CompactFlash memory card

Setting Up the Chassis

The Cisco 1805 cable router can be installed on a desktop or be mounted on a wall. Choose the setup that is best for your network:

Caution The front panel bezel must not be removed from the Cisco 1805 cable router. It is part of the product's enclosure, and must be left in place to prevent damage from foreign parts entering the router, to provide a shield from internal electromagnetic interference (EMI), and to direct the flow of cooling air properly through the chassis.

Setting the Chassis on a Desktop

You can place Cisco 1805 cable routers on a desktop or shelf. The Cisco 1805 cable router is shipped with the rubber feet attached to the chassis to provide space for air circulation.

Warning **To prevent personal injury or damage to the chassis, never attempt to lift or tilt the chassis using the handles on modules (such as power supplies, fans, or cards); these types of handles are not designed to support the weight of the unit.** Statement 1032

Caution Do not place anything on top of the router that weighs more than 10 pounds (4.5 kilograms). Excessive weight on top of the router could damage the chassis.

Chassis Grounding

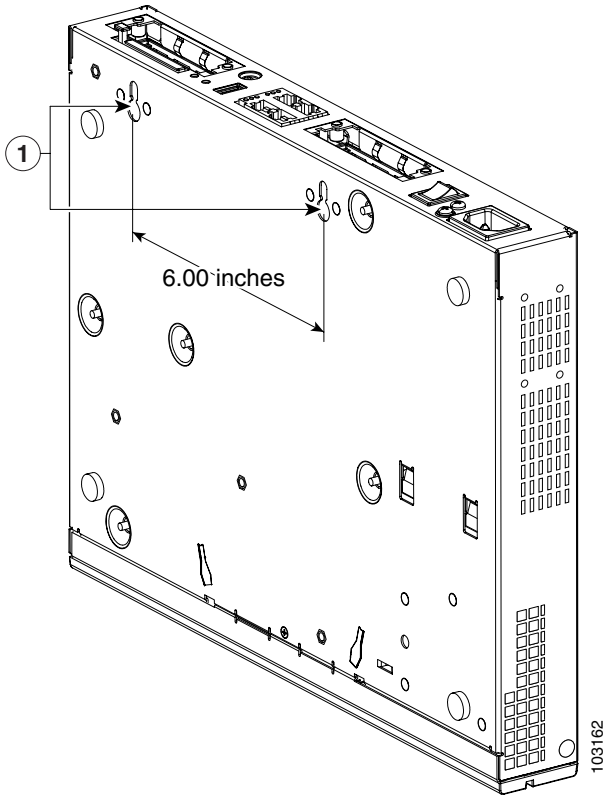
After the router has been installed, you must connect the chassis to a reliable earth ground. For the chassis ground connection procedure, see the "Installing the Chassis Ground Connection" section on page 3-4.

Wall-Mounting the Chassis

Warning **This unit is intended to be mounted on a wall. Please read the wall mounting instructions carefully before beginning installation. Failure to use the correct hardware or to follow the correct procedures could result in a hazardous situation to people and damage to the system.** Statement 248

The Cisco 1805 cable router can be wall-mounted by using two number 6, 3/4-inch screws and the mounting features on the bottom of the router. (See Figure 3-1.) You must provide the screws. We recommend using pan-head or round-head screws.

Figure 3-1 Wall-Mounting Features on the Cisco 1805 Cable Router



1	Wall-mounting features		

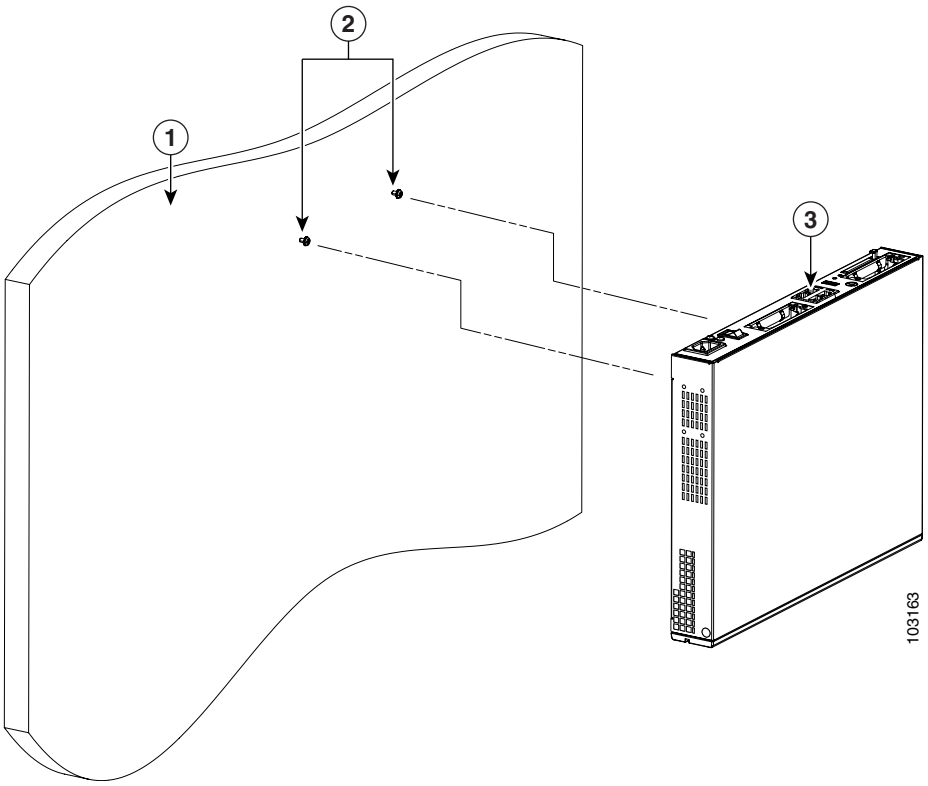
To mount the router on a wall or other surface, follow these steps:

Step 1 Install the two screws 6 inches (15.2 centimeters) horizontally apart on a wall or other vertical surface. The screws should protrude 1/4 inch (0.6 centimeter) from the surface of the wall.

Step 2 Remove the rubber feet from the router.

Step 3 Hang the router on the screws, front panel down. This is the appropriate orientation for safe use. (See Figure 3-2.)

Figure 3-2 Wall-Mounting the Cisco 1805 Cable Router



1	Wall	**3**	Router
2	Mounting screws		

Caution If you install the screws in drywall, use hollow-wall anchors (1/8 inch by 5/16 inch) to secure the screws. If the screws are not properly anchored, the strain of the cables connected to the router back panel could pull the router from the wall.

Installing the Chassis Ground Connection

Warning **This equipment must be grounded. Never defeat the ground conductor or operate the equipment in the absence of a suitably installed ground conductor. Contact the appropriate electrical inspection authority or an electrician if you are uncertain that suitable grounding is available.** Statement 1024

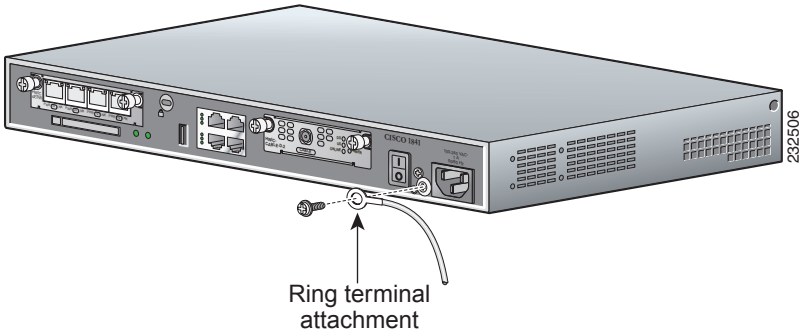
You must connect the chassis to a reliable earth ground, using a ground lug and size 14 AWG (2 mm^2) wire. To install the ground connection for a Cisco 1805 DOCSIS cable router, follow these steps:

Step 1 Strip one end of the ground wire to expose approximately 3/4 in. (20 mm) of conductor.

Step 2 Crimp the green14 AWG ground wire to a UL-Listed/CSA-certified ring terminal that is suitably sized for the number 6 ground screw provided on the rear panel of the router. The crimping tool should be one that is recommended by the ring lug terminal manufacturer.

Step 3 Attach the ring terminal to the chassis. The attachment points for the cable router are shown in Figure 3-3. Use a number 2 Phillips screwdriver and the screw supplied with the ground lug. Tighten the screw to a torque of 8 to 10 in-lb (0.9 to 1.1 N-m).

Figure 3-3 Chassis Ground Connection on the Cisco 1805 Router



Step 4 Connect the other end of the ground wire to a known good electrical ground point. Please consult a licensed electrician if you have any questions about the suitability of the ground connection.

After the router is installed and properly grounded, you can connect the WAN and LAN cables as required for your installation.